

## CLAIMS

What is claimed is:

1. An apparatus comprising:
  2. a collector to collect a message intended for an internal peer inside a firewall via a gateway device at the firewall, the message being transmitted by an external peer outside the firewall; and
  5. a distributor coupled to the collector to distribute the message to the internal peer.
1. 2. The apparatus of claim 1, further comprising:
  2. a gateway interface to interface internally to the firewall to the gateway device.
1. 3. The apparatus of claim 2, wherein the gateway interface establishes a continuous connection to a relay server outside the firewall through tunneling.
1. 4. The apparatus of claim 3, wherein the collector registers to the relay server to act as an external contact point for the external peer.
1. 5. The apparatus of claim 4, further comprising a registrar to register the internal peer for external communication across the firewall, and wherein the collector polls the relay server for an incoming message for a registered internal peer using a single connection.
1. 6. The apparatus of claim 1, wherein the gateway device is one of a firewall and a network translation address (NAT) device.
1. 7. The apparatus of claim 1, further comprising:
  2. a registrar to register the internal peer for external communication across the firewall.
1. 8. The apparatus of claim 7, wherein the collector polls the gateway device for an incoming message for a registered internal peer using a single connection.

1           9.       The apparatus of claim 7, wherein the collector collects an internal message  
2       from a registered internal peer to be transmitted to the external peer.

1           10.      The apparatus of claim 9, wherein the distributor distributes the collected  
2       internal message to the external peer via the gateway device.

1           11.      A method comprising:  
2       collecting a message intended for an internal peer inside a firewall via a gateway  
3       device at the firewall, the message being transmitted by an external peer outside the  
4       firewall; and  
5       distributing the message to the internal peer.

1           12.      The method of claim 11, further comprising:  
2       interfacing internally to the firewall to the gateway device located at the firewall.

1           13.      The method of claim 12, wherein the interfacing comprises: establishing a  
2       continuous connection to a relay server outside the firewall through tunneling.

1           14.      The method of claim 13, wherein the collecting comprises: registering to  
2       the relay server to act as an external contact point for the external peer.

1           15.      The method of claim 14, further comprising registering the internal peer for  
2       external communication across the firewall, and polling the relay server for an incoming  
3       message for a registered internal peer using a single connection.

1           16.      The method of claim 11, wherein the interfacing to the gateway device  
2       comprises: interfacing to one of a firewall and a network translation address (NAT) device.

1           17.      The method of claim 11, further comprising:  
2       registering the internal peer for external communication across the firewall.

1        18.    The method of claim 17, wherein the collecting comprises: polling the  
2 gateway device for an incoming message for a registered internal peer using a single  
3 connection.

1        19.    The method of claim 17, wherein the collecting comprises: collecting an  
2 internal message from a registered internal peer to be transmitted to the external peer.

1        20.    The method of claim 19, wherein the distributing comprises: distributing the  
2 collected internal message to the external peer via the gateway device.

1        21.    A system comprising:  
2            a gateway device located at a firewall; and  
3            an internal contact point located inside the firewall, the internal contact point  
4 comprising:  
5            a collector to collect a message intended for an internal peer inside a  
6            firewall via a gateway device at the firewall, the message being transmitted by an  
7            external peer outside the firewall; and  
8            a distributor coupled to the collector to distribute the message to the internal  
9            peer.

1        22.    The system of claim 21, further comprising:  
2            a gateway interface to interface internally to the firewall to the gateway device.

1        23.    The system of claim 22, wherein the gateway interface establishes a  
2 continuous connection to a relay server outside the firewall through tunneling.

1        24.    The system of claim 23, wherein the collector registers to the relay server to  
2 act as an external contact point for the external peer.

1        25.    The system of claim 24, further comprising a registrar to register the  
2 internal peer for external communication across the firewall, and wherein the collector

3        polls the relay server for an incoming message for a registered internal peer using a single  
4        connection.

1            26.        The system of claim 21, wherein the gateway device is one of a firewall and  
2        a network translation address (NAT) device.

1            27.        The system of claim 21, further comprising:  
2                a registrar to register the internal peer for external communication across the  
3        firewall.

1            28.        The system of claim 27, wherein the collector polls the gateway device for  
2        an incoming message for a registered internal peer using a single connection.

1            29.        The system of claim 27, wherein the collector collects an internal message  
2        from a registered internal peer to be transmitted to the external peer.

1            30.        The system of claim 29, wherein the distributor distributes the collected  
2        internal message to the external peer via the gateway device.

1            31.        A gateway device comprising:  
2                an internal contact point located inside the firewall, the internal contact point  
3        comprising:  
4                a collector to collect a message intended for an internal peer inside a  
5        firewall via a gateway device at the firewall, the message being transmitted by an  
6        external peer outside the firewall; and  
7                a distributor coupled to the collector to distribute the message to the internal  
8        peer.

1            32.        The system of claim 31, further comprising:  
2        a gateway interface to interface internally to the firewall to the gateway device.

1            33.        The system of claim 31, wherein the gateway device is one of a firewall and  
2        a network translation address (NAT) device.

1        34.     The system of claim 31, further comprising:  
2                a registrar to register the internal peer for external communication across the  
3        firewall.

1        35.     The system of claim 31, further comprising: a relay server to interface to a  
2        number of external peers outside the firewall.